

Blender-aid user manual

Blender-aid release October 2010

User manual

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Introduction

Blender is a 3d content creation suite. It enables user to model, animate, shade and do post productions (composing) on 3d content. With Blender it is possible to create 3d games, 2.5d animations and 3d animations.

What is Blender-aid?

Blender-aid is a tool that helps you manage Blender productions. Blender focuses on the creation of content. Blender-aid focuses on managing the content of a production.

Big Buck Bunny consists of a lot of 3d content. This content is located in many files. Using Blender to manage content across files is difficult, especially when the content is not part of a single scene (= technical representation of a movie script).

What can you do with it?

The 2 main features of blender-aid are visibility and refactoring.

Visibility presents technical data of a production in different ways, like the links between files or the output settings of files. Presenting the data in a useful way lets you see where and why a file is used. With this information it is possible to answer questions like: "What scenes needs to be re-rendered when you modify a file or a part of a file?".

During the creation of a production changes happen. Blender-aid can perform complex refactoring tasks like renaming a file or moving a file to another folder location. Blender-aid will assure that the structure of the production stays intact.

How does it work?

Using Blender-aid is very simple. Just configure where your production is located on your computer. Blender-aid will inspect the files in the given location. With your web browser you can navigate through your production and perform refactoring tasks.

When do you use it?

Blender-aid has been designed for small teams working on blender animations or series. But feel free to use it and see what it can do for you. By using modern web and data warehousing techniques it enables you to quickly inspect and control your production.

Features

This section explains the main (functional) features of the tool.

Visibility

Blender-aid shows different aspects of the technical data of your production. Details are described below:

- View render settings of all production files
- View all production files used by a production file
- View all production files that uses a production file
- View all direct neighbours (users and used) production files
- View missing links in a production
- View list of elements from a blend file
- View filtered references and dependencies (table and graphic)

Refactoring

Refactoring is the ability to change the structure of a production.

- Rename production file
- Rename element of blend file
- Move production file

Installation

1. Download blender-aid package what can be found at <http://code.google.com/p/blender-aid/downloads/>
2. Unzip the downloaded file into a directory
3. Optional: Configure the settings (see configuration). This is only necessary when
 1. using windows or
 2. if one would like to use different settings.
4. Run the application in command line by typing: `python server.pyc` or `./server.pyc`

Make sure the user has read & write privileges to the database location (default `"/var/tmp"`). The default location for windows is the installation directory.

Configuration of settings

Currently only the web server listening port and the database location can be configured. The web server listens default to port 8080 on localhost. The default database location is `/var/tmp/sql.bin`. Windows users should change the default location of the database.

1. Open the file `settings.py`
2. Change whatever you like
3. Save the settings
4. Restart the server.pyc

Technical dependencies

Blender-aid depends on the following software:

- Optional PIL (Python Imaging Library) for thumbnail generation
- Python 2.6 or Python 3.1
- Pysvn (tested with version 1.7.2) can be downloaded from <http://pysvn.tigris.org>
- A subversion implementation (1.6 or 1.5) can be downloaded from <http://subversion.apache.org/packages.html>

It is advisable to install the dependencies using the packaging system of your OS. Installation of pysvn can be hard task as building the sources depends on many other libraries and OS specific settings like the location of the site-packages directory.

During installation (via sources) of this library on Ubuntu 10.10 and Python 3.1 the next additional packages also needed to be installed (only during compilation).

- `libneon27-dev`
- `python3-cxx`

The site-packages directory is different as mentioned in the `INSTALL.html` of pysvn. The location we used is `/usr/lib/python3.1`

De-installation

To remove Blender-aid just delete the directory where it is installed. The only created file is `/var/tmp/sql.bin` (or otherwise when changed in `settings.py`)

Functionality – web base

! Please note that the screenshots inside the document can be from other versions than what you are using !

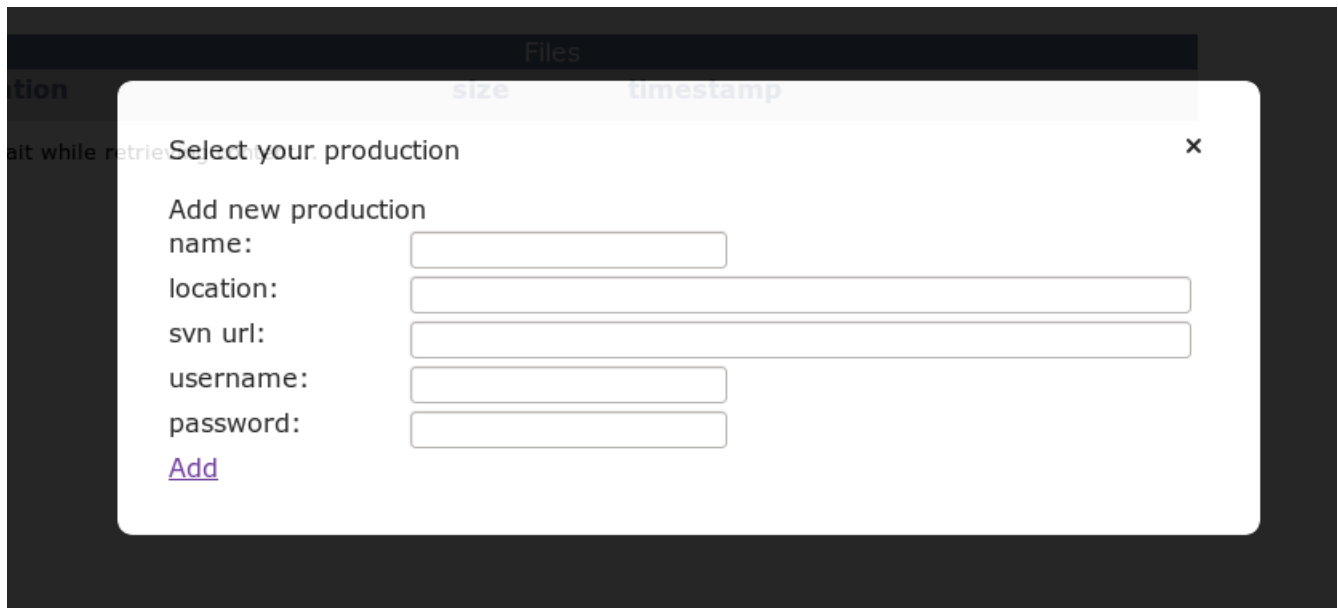
First configuration

When the server is started. You can start a browser and browse to “<http://localhost:8080>”. This can be different when configured otherwise.

When first started the next screen will be displayed



The first thing what has to be done is to add some productions to the tool. Press “<< productions” in the upper right to open the production selection popup.



First we need to add our production location to the tool. For the next example I've downloaded Yo Frankie! And unzipped it to /var/productions/yf

Enter the next values

size timestamp

etrieve Select your production x

Add new production

name: Yo Frankie!

location: /var/productions/yf

svn url:

username:

password:

[Add](#)

After clicking on the link “Add”. The production location is defined.

size timestamp

etrieve Select your production x

[Yo Frankie!](#) x

Add new production

name:

location:

svn url:

username:

password:

[Add](#)

What has happened:

The location of the production “Yo Frankie!” on the location “/var/productions/yf” is not known by Blender-aid. Blender-aid will extract the technical data from this location and be able to display it to you.

Now click on your newly added production (“Yo Frankie!”) and the popup will close.

We have to wait for halve a minute or so, depending on the speed of your computer. Blender-aid inspects all production files and will store this information in a database. This process is

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called indexing. Indexing normally takes up to a few seconds, but when a lot of changes happen, it can take longer.

When indexing is done the screen will look like this:

[<<productions](#)

Yo Frankie!
/var/productions/yf

[Files](#)

[Scenes](#)

[Missing links](#)

filter:

Files		
location	size	timestamp
. 1 item		
chars 15 items		
chars/textures 20 items		
dist 1 item		
effects 7 items		
franci_test 2 items		
franci_test/textures 2 items		
hud 5 items		
levels 15 items		
menus 2 items		
props 23 items		
textures 130 items		
textures/credits 14 items		
textures/level_lighthouse 22 items		
textures/level_nut 11 items		
270 item(s) found		

Now you are ready to use the tool.

Production-view

The production view is the screen as displayed above. It contains information of the selected production. The view contains 3 choices in the header.

- Files – displays a list of production files. It has a filter for quick finding of a specific production file.
- Scenes – display a list of all scenes in the production. It can be used to find and align render settings.
- Missing links – display a list of all missing links between files.
- SVN state – is only visible when svn bindings are present. It displays the state of SVN and has basic functionalities to revert and commit the changes to SVN.
















When pressing on a link in a tab you will be show detailed information of the file. This will be described in the File-view section

Production-view Files

The files tab displays files from the selected production.

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filter:

Files		
location	size	timestamp
1 item		
15 items		
 <u>bird.blend</u>	210672	Wed 06 Oct 2010 09:54:06 PM CET
 <u>birdtest.blend</u>	210672	Wed 06 Oct 2010 09:51:49 PM CET
 <u>blah.blend</u>	210672	Wed 06 Oct 2010 09:45:04 PM CET
 <u>butterfly.blend</u>	202789	Tue 05 Oct 2010 07:44:38 PM CET
 <u>frankie.blend</u>	412706	Wed 06 Oct 2010 09:42:17 PM CET
 <u>frankie_actions.blend</u>	1665074	Wed 06 Oct 2010 09:42:17 PM CET
 <u>frankie_momo.blend</u>	413697	Tue 05 Oct 2010 07:50:07 PM CET
 <u>frankie_testlevel.blend</u>	74397	Wed 06 Oct 2010 09:42:17 PM CET
 <u>justablend.blend</u>	210672	Wed 06 Oct 2010 09:46:45 PM CET
 <u>momo_actions.blend</u>	1050122	Wed 06 Oct 2010 09:42:17 PM CET
 <u>owl.blend</u>	210672	Wed 06 Oct 2010 09:41:15 PM CET
 <u>rat_actions.blend</u>	302653	Tue 05 Oct 2010 07:44:38 PM CET
 <u>sheep.blend</u>	391720	Tue 05 Oct 2010 07:44:38 PM CET
 <u>sheep_actions.blend</u>	642682	Tue 05 Oct 2010 07:44:38 PM CET
 <u>test.blend</u>	210672	Wed 06 Oct 2010 09:43:19 PM CET
20 items		
1 item		
7 items		
2 items		
2 items		
5 items		
15 items		
2 items		
23 items		
130 items		
14 items		
22 items		
11 items		
270 item(s) found		

The filter can be used to search for a specific files.

When clicking on a folder the files inside the folder will be displayed.

When clicking on the column-headers the files will be sorted. The folder structure will not be sorted.

Production-view Scenes

The scenes tab has a advanced filter. You can match every files to criteria.

In the section Columns you'll be able to view additional information of the scene.

<< productions

Yo Frankie!

 Files
 Scenes
 Missing links

Filter

☐ filter filename and scene name .

☐ find scenes which uses 600x600 as resolution.

☐ find scenes with output not using 25% size reduction

☐ find scenes what saves to EXR

☐ find all scenes using less than 100 threads/xy-parts

☐ not saved in blender version 2.49

☐ display only active scenes

Columns

☒ basic file and scene information (filename, scene name)

☐ blender information (blender version, pointersize, endianness, compression)

☒ scene output information (resolution, size, output type)

☐ scene frame information (frame step, start frame, end frame)

☐ scene optimalization information (rt, xparts, yparts)

blendfile	scene	resolution	size	output
chars/bird.blend	SCScene	1920x1920	50%	PNG
chars/butterfly.blend	SCScene	800x600	100%	TGA
chars/butterfly.blend	SCtest_group	800x600	100%	TGA
chars/frankie.blend	SCfrank_logic	640x480	75%	PNG
chars/frankie_actions.blend	SCfrank_logic	640x640	75%	PNG
chars/frankie_testlevel.blend	SCScene	800x600	100%	JPEG
chars/momo_actions.blend	SCScene	800x600	100%	JPEG
chars/rat_actions.blend	SCScene	800x600	100%	JPEG
chars/sheep.blend	SCsheep_logic	1920x1080	25%	PNG
chars/sheep_actions.blend	SCsheep	1920x1080	25%	PNG

Production-view Missing links

When viewing the missing links you'll be shown a table with all missing links in the production. At the moment these links are only missing file links. In the future this can be enhanced with missing elements.

<<productions

Yo Frankie!
/var/productions/yf

FilesScenesMissing links

The following files are referenced, but not found.

Missing links			
missing file	used by	actions	
franci_test/textures/prop_bridge_col.png	franci_test/cerf_volant.blend	Fix it	
textures/level_lighthouse/yo_frankie_a.png	franci_test/cerf_volant.blend	Fix it	
textures/level_lighthouse/bombo.png	franci_test/bumblebee.blend	Fix it	
c:\Program Files\Blender Foundation\Blender2.48\blender\yofrankie\bf_assets\textures\bombo.png	franci_test/bumblebee.blend	Fix it	
../chars/textures/flyingsquirrel_skin_col.png	franci_test/bumblebee.blend	Fix it	
../chars/textures/flyingsquirrel_skin_nor.png	franci_test/bumblebee.blend	Fix it	
../chars/textures/flyingsquirrel_skin_spec.png	franci_test/bumblebee.blend	Fix it	
../chars/textures/frankie_tail2.png	franci_test/bumblebee.blend	Fix it	
../chars/textures/radialblend_01.png	franci_test/bumblebee.blend	Fix it	
../textures/prop_beehive_nor.png	props/bee_hive.blend	Fix it	
textures/ivory.png	props/catapults.blend	Fix it	
C:/Program Files/Blender Foundation/3d downloads/yofrankie_bge/blender_game_engine/textures/Untitled.tga	levels/level_underworld.blend	Fix it	

12 item(s) found, displaying items 1 to 12

When clicking on “Fix it” a popup will appear with possible links what can be made. These options are sorted by relevance

FilesScenesMissing links

Select the link

file	match
textures/prop_bridge_col.png	100 %
chars/textures/char_bird_col.png	50 %
chars/textures/frankie_tail2.png	50 %
chars/textures/radialblend_01.png	50 %
dist/yofrankie.png	50 %
effects/lightball.png	50 %
effects/shadow.png	50 %
franci_test/textures/bombo.png	50 %
franci_test/textures/yo_frankie_a.png	50 %
hud/franky_health.png	50 %


207 item(s) found, displaying items 1 to 10

123456789101112131415161718192021

The relevance is determined by the name of the file (missing texture link) or by the usage of the file (missing blend link)
After selecting an option the next screen will appear to fix the link

Re-factoring

Tasks

file	description	state
 franci_test/cerf_volant.blend	Change library reference to [textures/prop_bridge_col.png]	Created
1 item(s) found		

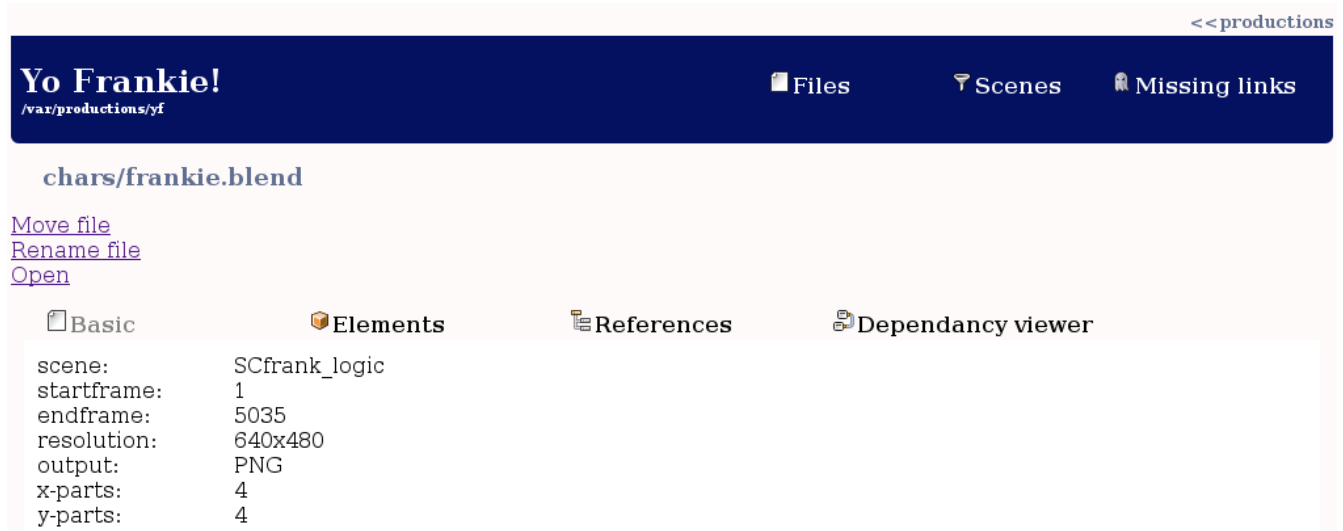
[Cancel](#) [Continue](#)

Press continue to perform these tasks or press cancel to return to the production-view

After continue the tasks will be performed and you will be asked to rollback or commit the changes. Before you continue, please test the result. After a commit or rollback you will be show the production-view

File-view

When clicking on a file in the production view you will get information about the file. This section describes this.



A file is show together with

- Local link – location to the file on the local file system for quick opening of the file
- Rename – Rename the file.
- Move – Move a file to another location in the production

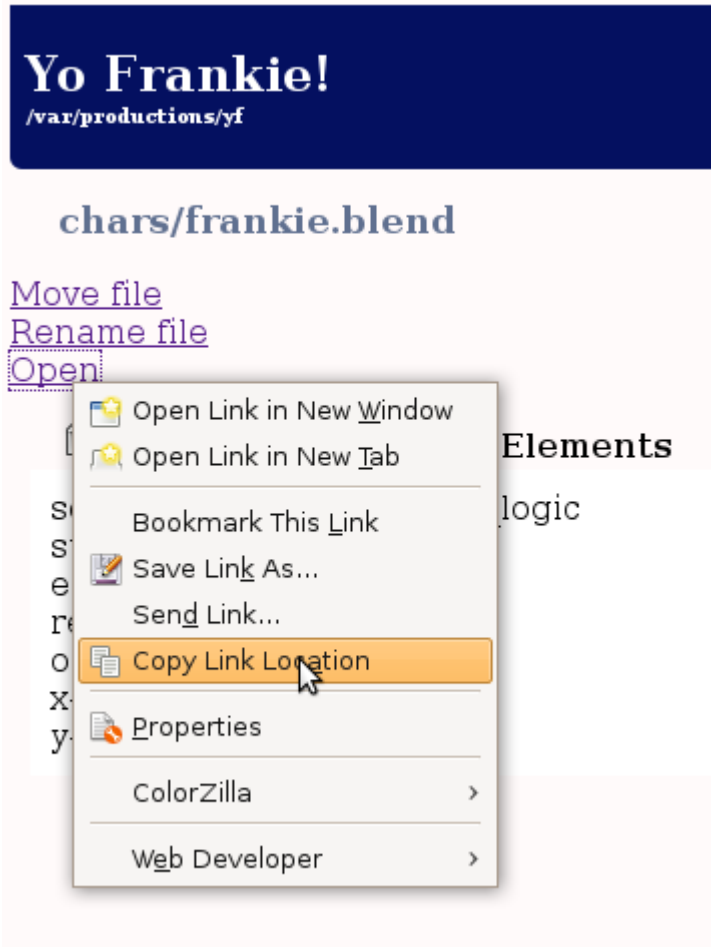
Next to this information 4 tabs are displayed:

- Basic – some basic information about the file.
- Elements – the elements inside a blender file
- References – references between files
- Dependancy viewer – advanced production reference viewer

File-view Local link

With local link it is possible to quickly open the file on your system. Due to security reasons this has to be done using the following steps.

1. Press other mouse button on the link and choose Copy Link Location.



2. Depending on your OS start the run command (Alt-f2 on Ubuntu)

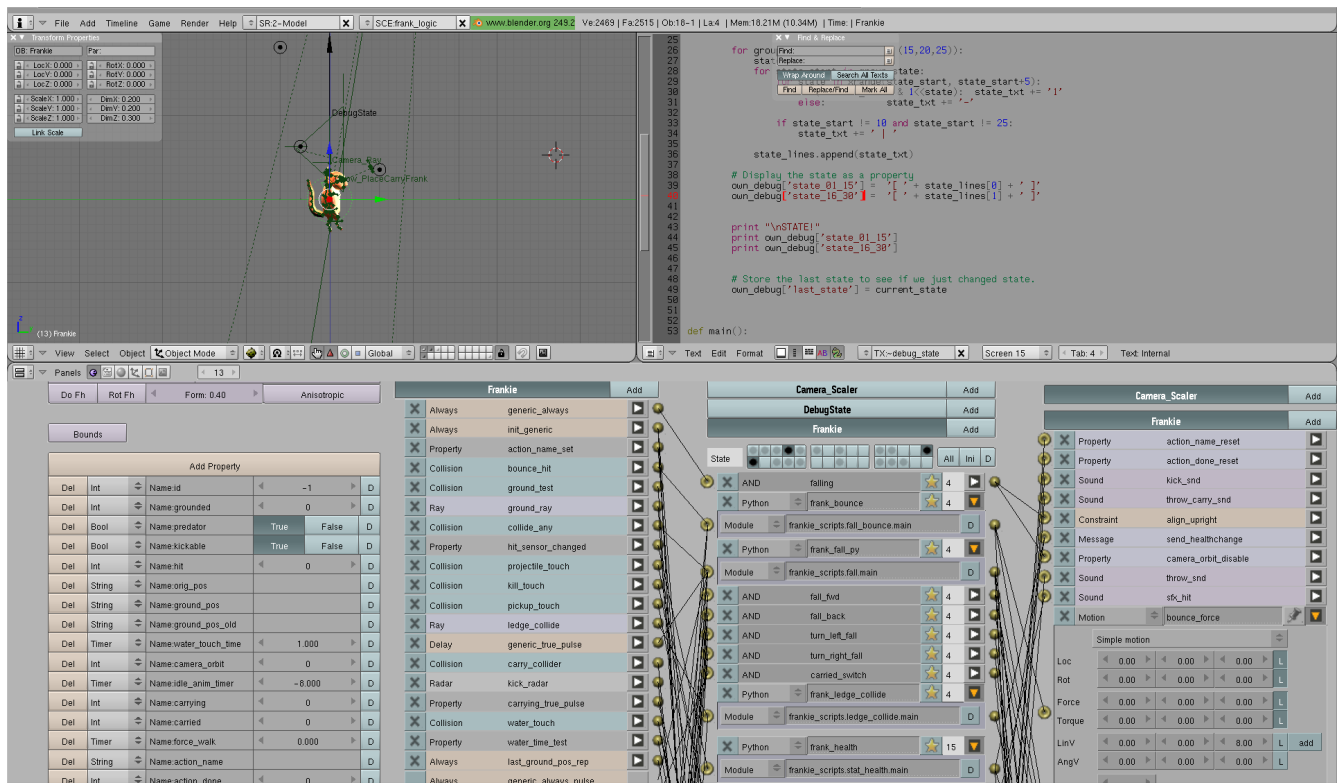


3. Press Paste

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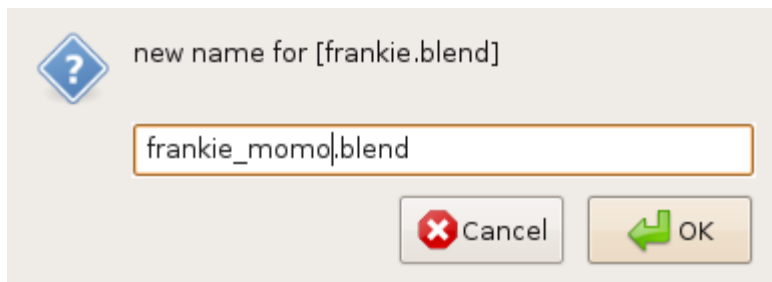
4. Press Run

blender will be started with the file depending on the configuration of your machine.



File-view Rename file

When pressing on rename file a popup will be shown asking you to enter the new filename



Enter new name and press OK. A screen will be displayed showing you what will be done

Re-factoring

Tasks

file	description	state
❁ franci_test/cerf_volant.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ levels/level_nut.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ levels/minilevel_release_Demo.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ levels/level_1_home.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ levels/library.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ levels/minilevel_the_Arena.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ levels/minilevel_ratpack.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ levels/minilevel_demo_arena3.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ levels/minilevel_lava_Falls.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ levels/level_selector.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ levels/level_selector_other.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ levels/level_underworld.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ levels/level_lighthouse.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ levels/start_menu.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ chars/momo_actions.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ chars/frankie_actions.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ chars/frankie_testlevel.blend	Change library reference [frankie.blend] to [frankie_momo.blend]	Created
❁ chars/frankie.blend	Rename [frankie.blend] to [frankie_momo.blend]	Created

18 item(s) found

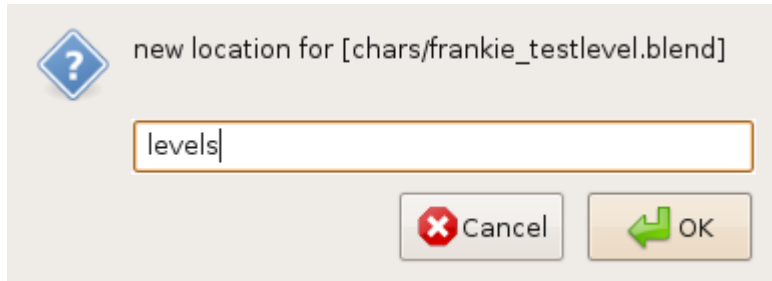
[Cancel](#) [Continue](#)

Press continue to perform these tasks or press cancel to return to the file-view

After continue the tasks will be performed and you will be asked to rollback or commit the changes. Before you continue, please test the result of the rename. After a commit or rollback you will be show the production-view

File-view Move file

When pressing on move file a popup will be shown asking you to enter the new location



Enter new location and press OK. A screen will be displayed showing you what will be done

Re-factoring

Tasks		
file	description	state
⊗ chars/frankie_testlevel.blend	Move file [chars/frankie_testlevel.blend] to [levels/frankie_testlevel.blend]	Created
1 item(s) found		
Cancel Continue		

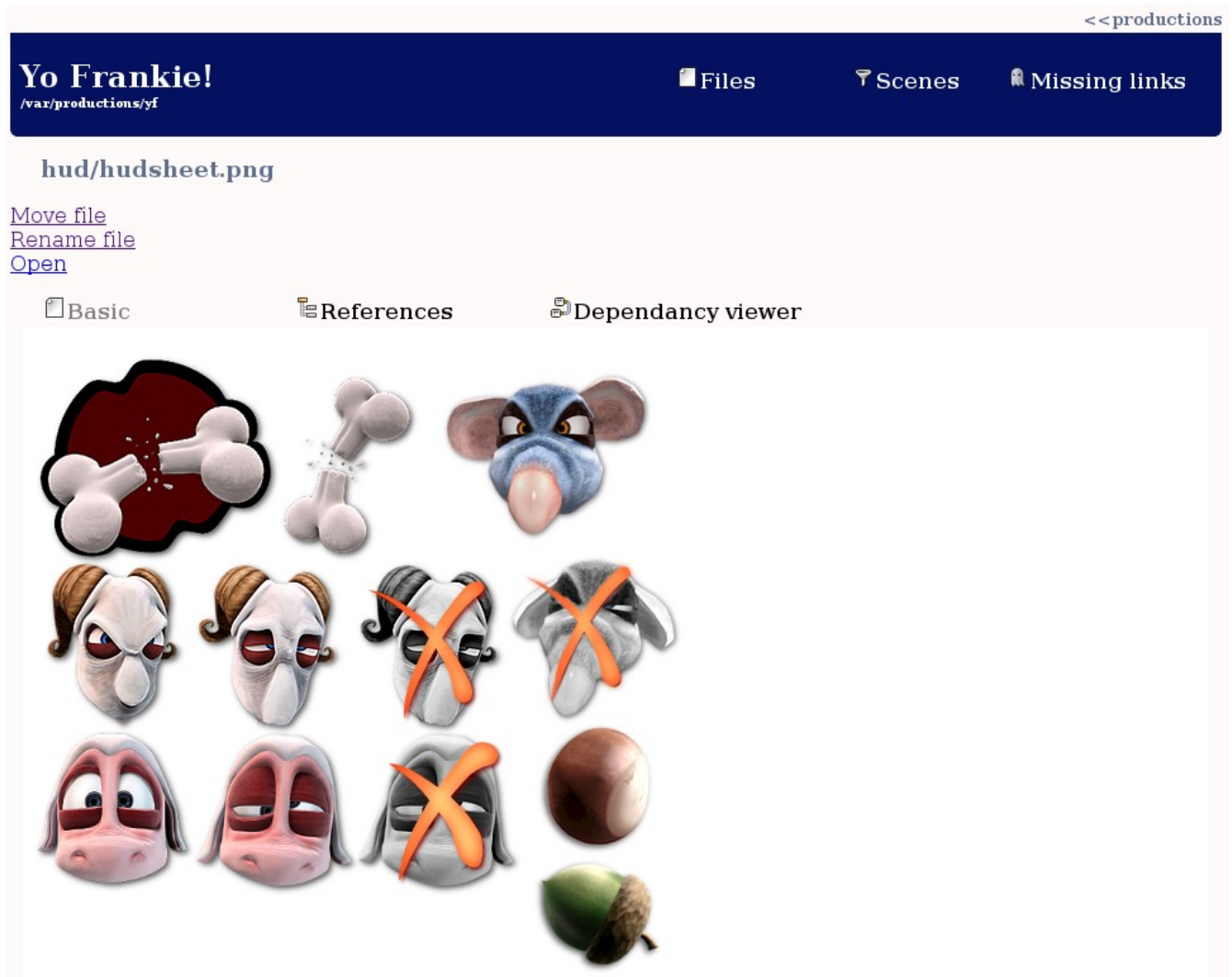
Press continue to perform these tasks or press cancel to return to the file-view

After continue the tasks will be performed and you will be asked to rollback or commit the changes. Before you continue, please test the result of the rename. After a commit or rollback you will be show the production-view

File-view Basic tab

The basic tab will display some basic information of the file. When the file is a texture a thumbnail will be displayed. For a blend file render information of the active scene will be shown.

When clicking on the image, the image will be downloaded or opened in your browser depending your browser-settings.



File-view Elements tab


The elements tab is only visible for blend files. It shows blender elements inside the file

Yo Frankie!

/var/productions/yf

















chars/frankie.blend

[Move file](#)
[Rename file](#)
[Open](#)

 Basic
 **Elements**
 Refe

filter:

Elements

type	name	actions
	SCfrank_logic	Rename
	MAflyingsquirrel_eye	Rename
	MAfrankie_skin	Rename
	MAfrankie_theeth	Rename
	MAfranky_physics_mat	Rename
	MAmomo_skin_body	Rename
	MAmomo_skin_eyelid	Rename
	MAmomo_skin_eyes	Rename
	MAtail_alpha	Rename
	MAtail_col	Rename
	OB1	Rename
	OB2	Rename
	OBCamera_Ray	Rename
	OBCamera_Scaler	Rename
	OBDebugState	Rename
	OBFrankie	Rename
	OBFrankieInputJoy	Rename
	OBFrankieInputKB	Rename
	OBfx_blast	Rename
	OBLamp.002	Rename

63 item(s) found, displaying items 1 to 20
1 [2](#) [3](#) [4](#)

It has a filter to quickly find a specific element in the file. And the possibility to rename an element

When rename is clicked a popup will appear asking for a new name



Enter new location and press OK. A screen will be displayed showing you what will be done

Press continue to perform these tasks or press cancel to return to the file-view

After continue the tasks will be performed and you will be asked to rollback or commit the changes. Before you continue, please test the result of the rename. After a commit or rollback you will be show the production-view

Re-factoring

Tasks

file	description	state
franci_test/cerf_volant.blend	Change element reference [GRFlyingSquirrel] to [GRFrankie]	Created
levels/level_nut.blend	Change element reference [GRFlyingSquirrel] to [GRFrankie]	Created
levels/minilevel_release_Demo.blend	Change element reference [GRFlyingSquirrel] to [GRFrankie]	Created
levels/level_1_home.blend	Change element reference [GRFlyingSquirrel] to [GRFrankie]	Created
levels/library.blend	Change element reference [GRFlyingSquirrel] to [GRFrankie]	Created
levels/minilevel_the_Arena.blend	Change element reference [GRFlyingSquirrel] to [GRFrankie]	Created
levels/minilevel_ratpack.blend	Change element reference [GRFlyingSquirrel] to [GRFrankie]	Created
levels/minilevel_demo_arena3.blend	Change element reference [GRFlyingSquirrel] to [GRFrankie]	Created
levels/minilevel_lava_Falls.blend	Change element reference [GRFlyingSquirrel] to [GRFrankie]	Created
levels/level_selector.blend	Change element reference [GRFlyingSquirrel] to [GRFrankie]	Created
levels/level_selector_other.blend	Change element reference [GRFlyingSquirrel] to [GRFrankie]	Created
levels/level_underworld.blend	Change element reference [GRFlyingSquirrel] to [GRFrankie]	Created
levels/level_lighthouse.blend	Change element reference [GRFlyingSquirrel] to [GRFrankie]	Created
chars/frankie_testlevel.blend	Change element reference [GRFlyingSquirrel] to [GRFrankie]	Created
chars/frankie.blend	Rename element [GRFlyingSquirrel] to [GRFrankie]	Created

15 item(s) found

[Cancel](#) [Continue](#)

File-view References tab

The reference tab shows all links to other files and all links that other files have to the current selected file



[Show graphical view](#)

References

file	type	name
textures/generic_redrock_nor.jpg	IM	IMgeneric_redrock_nor.p
textures/stone_cliff_tile_001_col.jpg	IM	IMstone_cliff_tile_001_

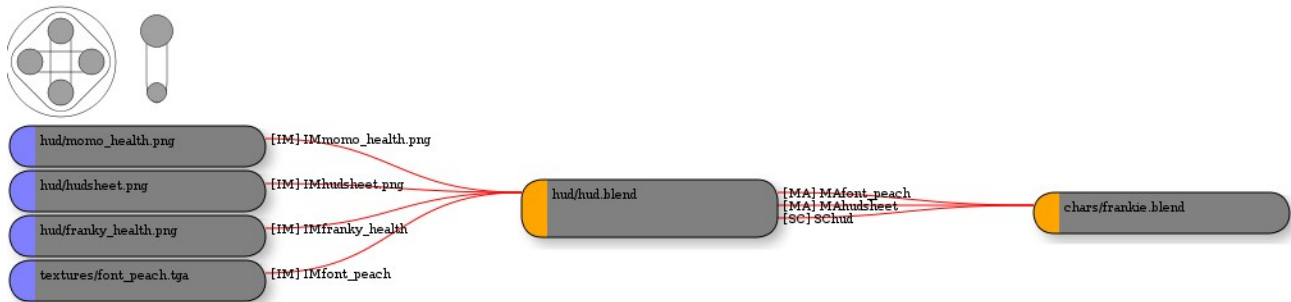
2 item(s) found, displaying items 1 to 2

File is used by

file	type	name
levels/level_underworld.blend	GR	GRcave_entrance

1 item(s) found, displaying items 1 to 1

It also has the ability to show a graphical display of the file in with their direct neighbour files.



The buttons on the top-left enable you to move and to zoom the graphical display.

TODO: how to read the graphical display.

File-view Dependency viewer tab

The dependency viewer tab is an advanced version of the references tab.

It has filter options of certain blender elements (show only groups, or groups and materials) and it has the ability to look broader than only direct linked files. It also has a function to view all references in the total production.

Basic

Elements

References

Dependency viewer

settings

neighbour

☐ All
 ☐ Object
 ☒ Material
 ☐ Mesh
 ☐ Texture
 ☐ Lamp
 ☐ Armature
 ☐ Action
 ☐ Particle
 ☒ Group
 ☐ Camera
 ☐ World
 ☐ Image

graphical display

☐ Show detailed file reference information
 [Show graph](#)

result

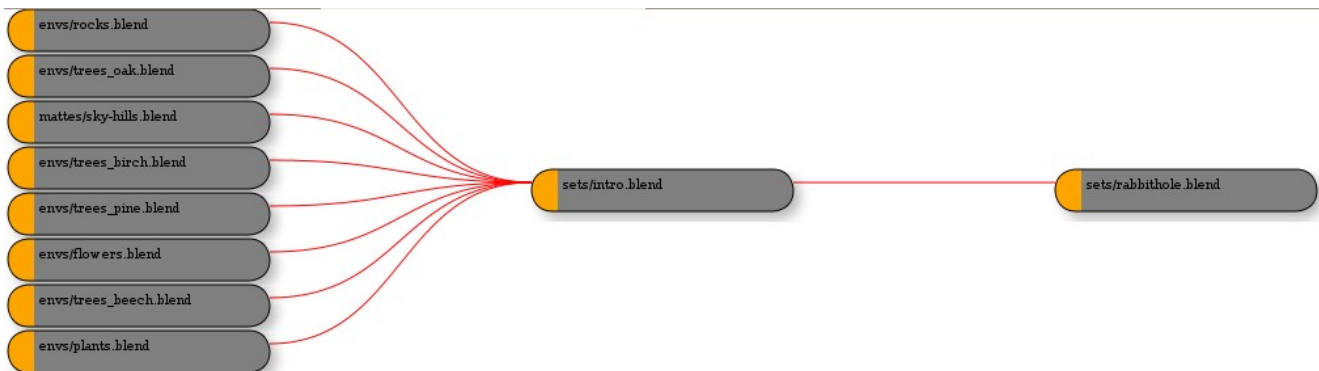
result

file	references	type	element
franci_test/cerf_volant.blend	chars/frankie.blend	GR	GRFlyingSquirrel
levels/level_nut.blend	chars/frankie.blend	GR	GRFlyingSquirrel
levels/level_nut.blend	chars/frankie.blend	GR	GRMomoMonkey
levels/level_nut.blend	chars/frankie.blend	MA	MAfrankie_skin
levels/level_nut.blend	chars/frankie.blend	MA	MAtail_col
levels/level_nut.blend	chars/frankie.blend	MA	MAtail_alpha
levels/level_nut.blend	chars/frankie.blend	MA	MAflyingsquirrel_eye
levels/level_nut.blend	chars/frankie.blend	MA	MAfrankie_theeth
levels/minilevel_release_Demo.blend	chars/frankie.blend	GR	GRFlyingSquirrel
levels/minilevel_release_Demo.blend	chars/frankie.blend	GR	GRMomoMonkey
levels/minilevel_release_Demo.blend	chars/frankie.blend	MA	MAfranky_physics_mat
levels/minilevel_release_Demo.blend	chars/frankie.blend	MA	MAmomo_skin_body
levels/minilevel_release_Demo.blend	chars/frankie.blend	MA	MAmomo_skin_eyelid
levels/minilevel_release_Demo.blend	chars/frankie.blend	MA	MAmomo_skin_eyes
levels/minilevel_release_Demo.blend	chars/frankie.blend	MA	MAfrankie_skin

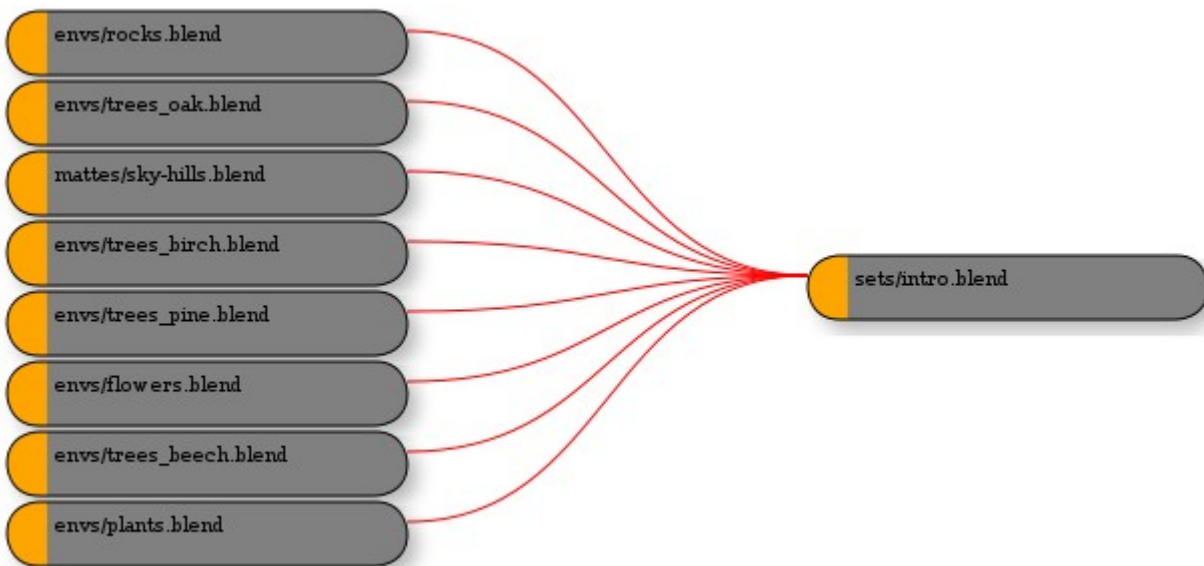
the dropdown list has 4 options. (neighbour, uses, used, production)

Blender-aid user manual

Neighbour	Shows only direct relations to and from the selected file. (example: texture, character, scene, when character is selected)
Uses	Will show all relations (and files) the selected file depends on. (example: texture, character, when character is selected)
Used	Will show all relations (and files) what depends on the selected file (example: character, scene, when character is selected)
Production	Show all relations between all files from the production.

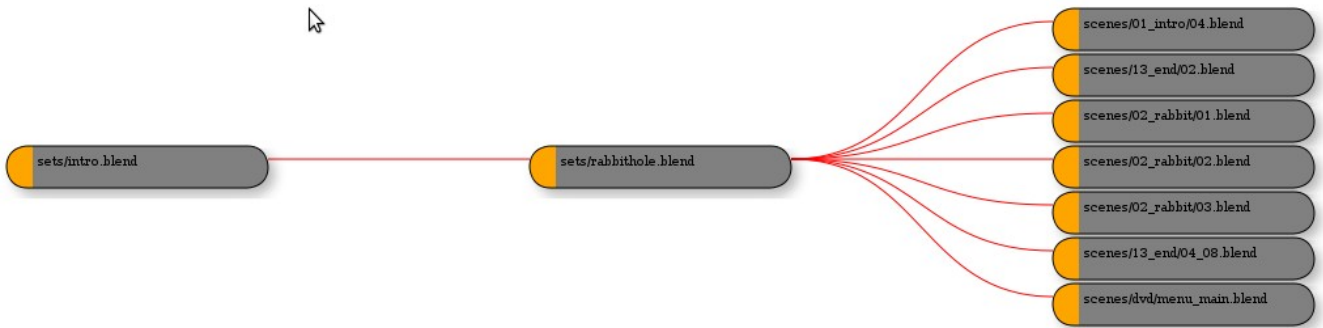


Neighbours of “sets/intro.blend”

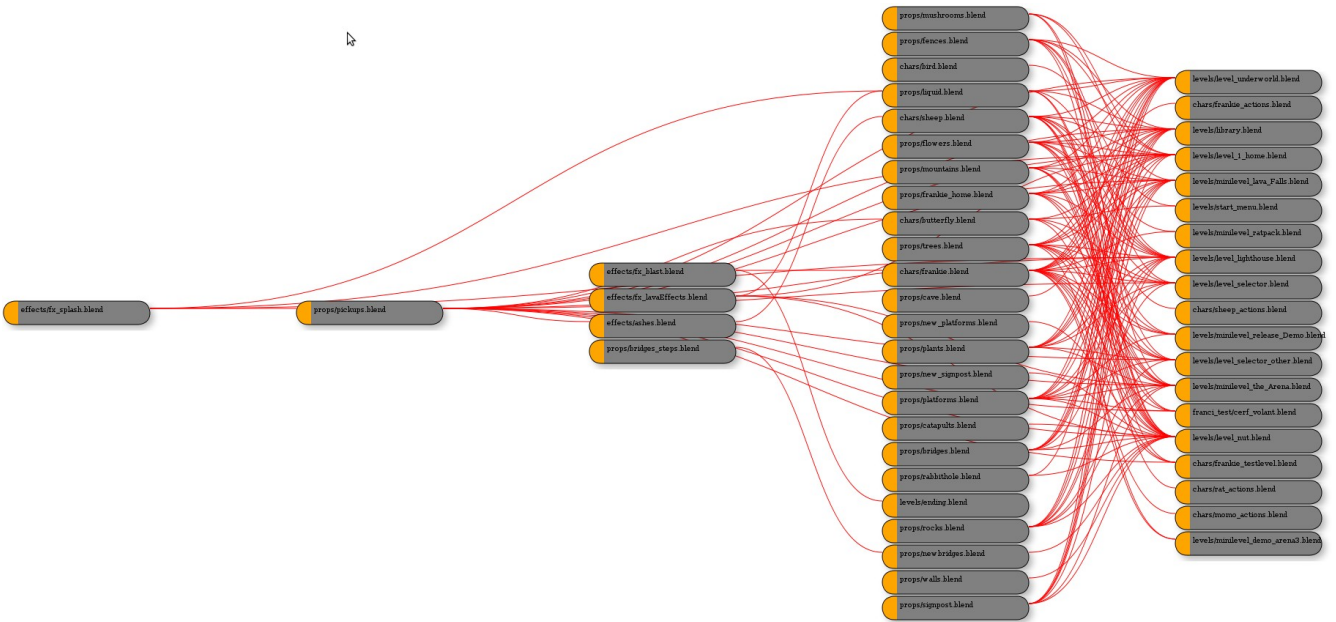


All uses of “sets/intro.blend”

Blender-aid user manual



All used of “sets/intro.blend”

[View complete production](#)

Beneath the dropdown list it is possible to filter the relations (not show unselected relations)

Blender-aid user manual

- ☐ All
- ☐  Object
- ☒  Material
- ☐  Mesh
- ☐  Texture
- ☐  Lamp
- ☐  Armature
- ☐  Action
- ☐  Particle
- ☒  Group
- ☐  Camera
- ☐  World
- ☐  Image

When “All” is selected the other selections are not shown.

SVN bindings

When the production has been checked-out with SVN information blender-aid provides basic SVN functionalities.

Select your production

Add new production

name: Yo Frankie!

location: /var/productions/yf

svn url: http://atmind/svn/yofrankie

username: test

password: ****

Add

- Blender-aid will update the svn working folder during all refactoring actions. During renaming of a file, svn rename will be executed to update the bindings.
- Blender-aid can display the state of the working folder.
- Blender-aid can do basic SVN tasks like adding or reverting files.

When adding the production the Blender-aid and the location does not exist the production will be checked out from the SVN repository. For large productions this can take a while. During this time the mouse will be turned in a waiting cursor (hourglass or waiting wheel pending on your computer).

After selecting the production with SVN bindings a new menu item will be displayed (SVN state). This is highlighted in the next screenshot.



Yo Frankie!
/var/productions/yf

Files
Scenes
Missing links
SVN state

filter:

☐ Normal
☒ Added
☒ Modified
☒ Deleted
☒ Unversioned
☒ Missing
☐ Ignore

SVN states				
location	state	committer	revision	actions
<div> <div>chars</div> <div>5 items</div> </div>				
frankie_actions.blend	modified	jbakker	582	Revert
frankie_momo.blend	added			
frankie_testlevel.blend	modified	jbakker	582	Revert
momo_actions.blend	modified	jbakker	582	Revert
frankie.blend	deleted	jbakker	582	Revert
<div> <div>franci_test</div> <div>1 item</div> </div>				
<div> <div>levels</div> <div>13 items</div> </div>				
19 item(s) found				

[Update production](#)
[Revert all](#)
[Commit](#)

After usage the SVN state menu will display the SVN status of the working folder. Using the filter a file can be searched. Using the check-boxes the different states can be filtered.

Update production will perform a SVN update.

Revert all will revert all files

Commit will commit the changes to the SVN repository.